Service
Service
Service

HI515
HI525
HI535
HI545

Philips Domestic Appliances and Personal Care

Service Manual

PRODUCT INFORMATION

Features	HI515	HI525	HI535	HI545
Pilot light	x	x	x	x
Integrated cord winder	x	x	x	x
Spray	x	x	x	x
Variable steam	x	x	x	x
Turbo steam	-	x	x	x
Shot of steam	x	x	x	x
Vertical steam	x	x	x	x
Self clean	x	x	x	x
Ball swivel	-	-	x	x
Length cord set 2.5 m	x	x	x	x
Anti-drip function	x	x	x	x
Automatic shut-off	-	-	-	x
Anodised soleplate	x	x	x	x

Voltage : 100V, 110-127V, 220-240V

Frequency : 50-60Hz

Power consumption : 100V, 1200W at 100W
110-127V, 1300W at 120V
220-240V, 1450W at 220V

Soleplate temperature : 215°±25°C

Steam output : Varible steam output max. 26gr/min when :
- slide is set to position 6 and
- temperature dial is set to position MAX.

Turbo steam output :
Always to be used in combination with the variable steam slide, increase the steam output with max. 13gr/min to a total 0f 39gr/min.

Shot of steam : 60gr/min.

This product meets the requirement regarding interference suppression on radio and TV.

Turbo steam function :
The steam output of the variable steam function depends upon the position of the slide knob.
When set to position 6 the steam output is 20 gr/min.
This might be not sufficient. In that case the turbo button has to be pushed down for max 10 sec. Due to this operation the steam output will increase to 30 gr/imn.

Vertical steam :
When the iron is kept in a vertical position, the s.o.s. button can be used to iron hanging fabrics as curtains.

Self-clean function :
When the self-clean button is pushed down, a sudden flow of water is released from the tank into the heated sole plate.
This thermal shock will cause scale particles come loose from the steam chamber. These particles are then flushed out through the steam vents by the water.

Anti-drip :
Water is only released through the tank valve into the steam chamber if the sole plate temperature is high enough to evaporate all water. If the temperature is not hot enough the tank valve is closed by means of the bi-metal disc.

Auto shut-off :
A relay in the electronic module interrupts the power to the heating element when the iron has been motionless :
- for 30 seconds in horizontal position.
- for 8 minutes in vertical position.

The red " Auto-off " pilot light starts blinking. **For the 220-240 Volts version only, a sound signal is heard too.**
When the iron is moved again, it's automatically switched on again.

N.B. When the iron is plugged in and in a horizontal position, it will not be switched off during the first 2 minutes to ensure that it heats up properly.

Real-off function :
The movement of the thermostat's bi-metal is limited in downward direction thus will prevent the thermostat contacts from closing at room temperature at MIN setting.

Published by Philips Domestic Appliances and Personal Care Printed in Hong Kong ©Copyright reserved Subject to modification

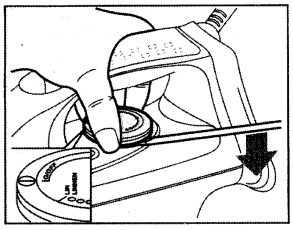
4822 729 22099
01/99
Ver.1

PHILIPS

DISASSEMBLY ADVICE

DIAL 1

RATTLE SPRING 2

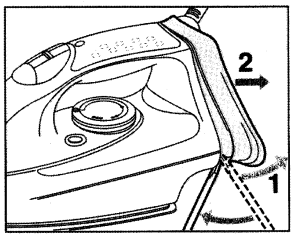


CORD SET 3

BACK PLATE 4

SWIVEL 5

remove SCREW C1x
remove BACK PLATE 4



remove SCREWS
cord clamping

INLAY 6

OPERATION KNOBS 7

DOOR 8

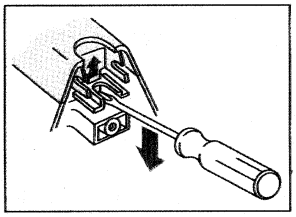
DOOR HOLDER/ DEAIR. BUSH 9

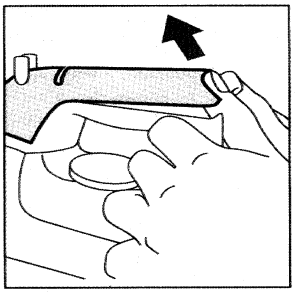
SPRAY UNIT 10

PILOT LIGHT 11

PCB 12

remove SCREW C
remove BACK PLATE 4
remove INLAY 6





SLIDE UNIT 13

NEEDLE 14

remove SCREW C 1x
remove BACK PLATE 4
remove INLAY 6
remove SCREW A 2x

HANDLE 15

SPRAY PUMP 16

S.O.S.PUMP 17

TANK 18

SELF CLEAN BUTTONS 19

SEALINGS 22

remove SCREW C 1x
remove BACK PLATE 4
remove INLAY 6
removeSCREW A 2x
remove DIAL 1
remove SCREWS
cord clamping 2x
remove SCREW B 3x
remove SCREW AI 2x
remove HANDLE 15

THERMOSTAT 20

THERMOSTAT PIN 21

SEALINGS 22

COVER 23

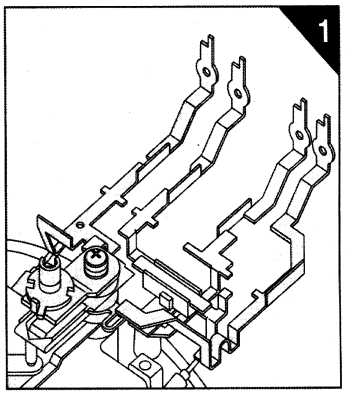
TYPE PLATE 24

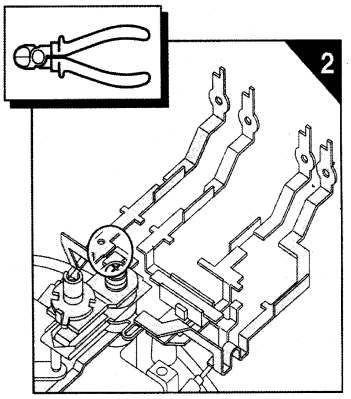
SOLE PLATE 25

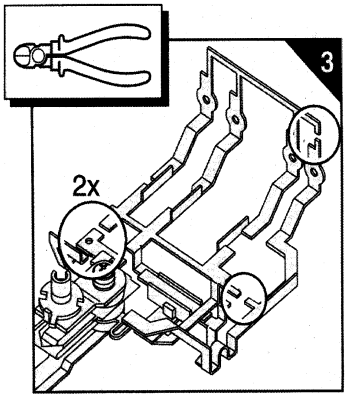
ANTI-DRIP VALVE 26

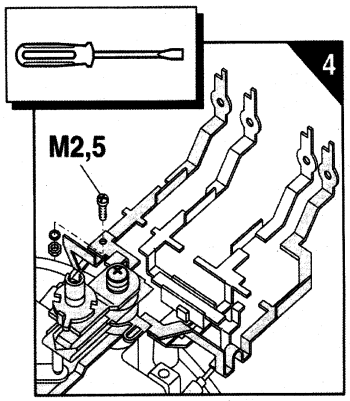
remove SCREW C 1x
remove BACK PLATE 4
remove INLAY 6
remove SCREW A 2x
remove DIAL 1
remove SCREWS
cord clamping
cord set
pilot light / pcb
remove SCREW B 3x
remove SCREW A1 2x
remove HANDLE 15
remove SCREW F 3x

Replacement Thermostat see fig. 1-4



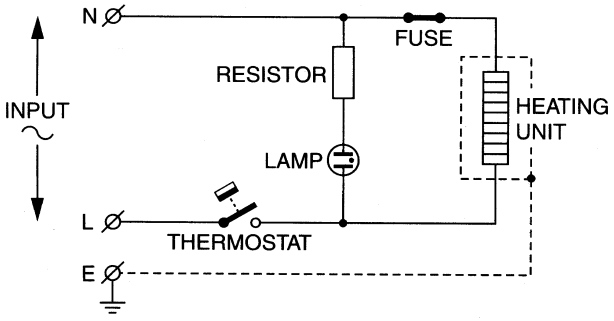




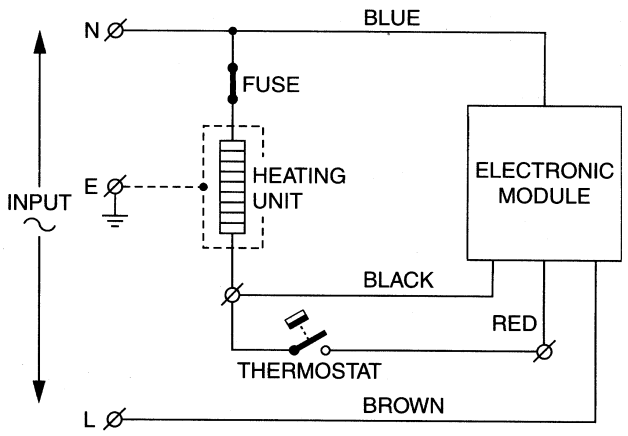


PARTS LIST

Pos	Description	Consists of	Service code
1	Dial HI515/525 (Blue)	101,102,103	4822 310 11328
	Dial HI535/545 (Green)	101,102,103	4822 310 11329
2	Rattle spring		4822 310 11021
3	Cord set EU		4822 321 11329
	Cord set UK		4822 321 11331
	Cord set flat pin plug		4822 321 11481
	Cord set China plug		4822 321 11332
4	Black plate HI515/525		4822 426 10826
	Black plate HI535/545		4822 426 10827
5	Swivel HI515/525		4822 325 10226
	Ball swivel HI535/545		4822 310 11022
6	Inlay HI515	104,105	4822 310 11331
	Inlay HI525	104,105	4822 310 11332
	Inlay HI535	104,105	4822 310 11333
	Inlay HI545	104,105	4822 310 11334
7	Set operation knobs HI515/HI525 (Blue)	105,106,107	4822 310 11335
	Set operation knobs HI535/HI545 (Green)	105,106,107	4822 310 11336
8	Door		4822 443 11191
9	Door holder / deairing bush	108,109	4822 310 11026
10	Spray unit		4822 360 10441
11	Pilot light 100-240V		4822 134 10094
12	PCB module 100-127 V		4822 214 12294
	PCB module 220-240 V		4822 214 13047
13	Slide unit (Blue)	110,111,105	4822 310 11337
14	Needle set	112,113,114,115,116	4822 310 11338
15	Handle unprinted		4822 498 10732
16	Spray pump set	10,117,118,119,120	4822 310 11339
17	S.O.S. pump set	117,118,120,121,122	4822 310 11341
18	Water tank set (blue)	108,109,123,124,125,126	4822 310 11342
	Water tank set (green)	108,109,123,124,125,126	4822 310 11343
19	Self clean button set (Blue)	124,125	4822 310 11344
	Self clean button set (green)	124,125	4822 310 11345
20	Thermostat		4822 282 10315
21	Thermostat pin		4822 535 10469
22	Sealing set	126,127,128,129	4822 310 11034
23	Cover		4822 442 01807
24	Type plate unprinted		4822 454 13458
25	Soleplate + thermostat 100V		4822 259 10327
26	Anti-drip valve set	126,130	4822 310 11035

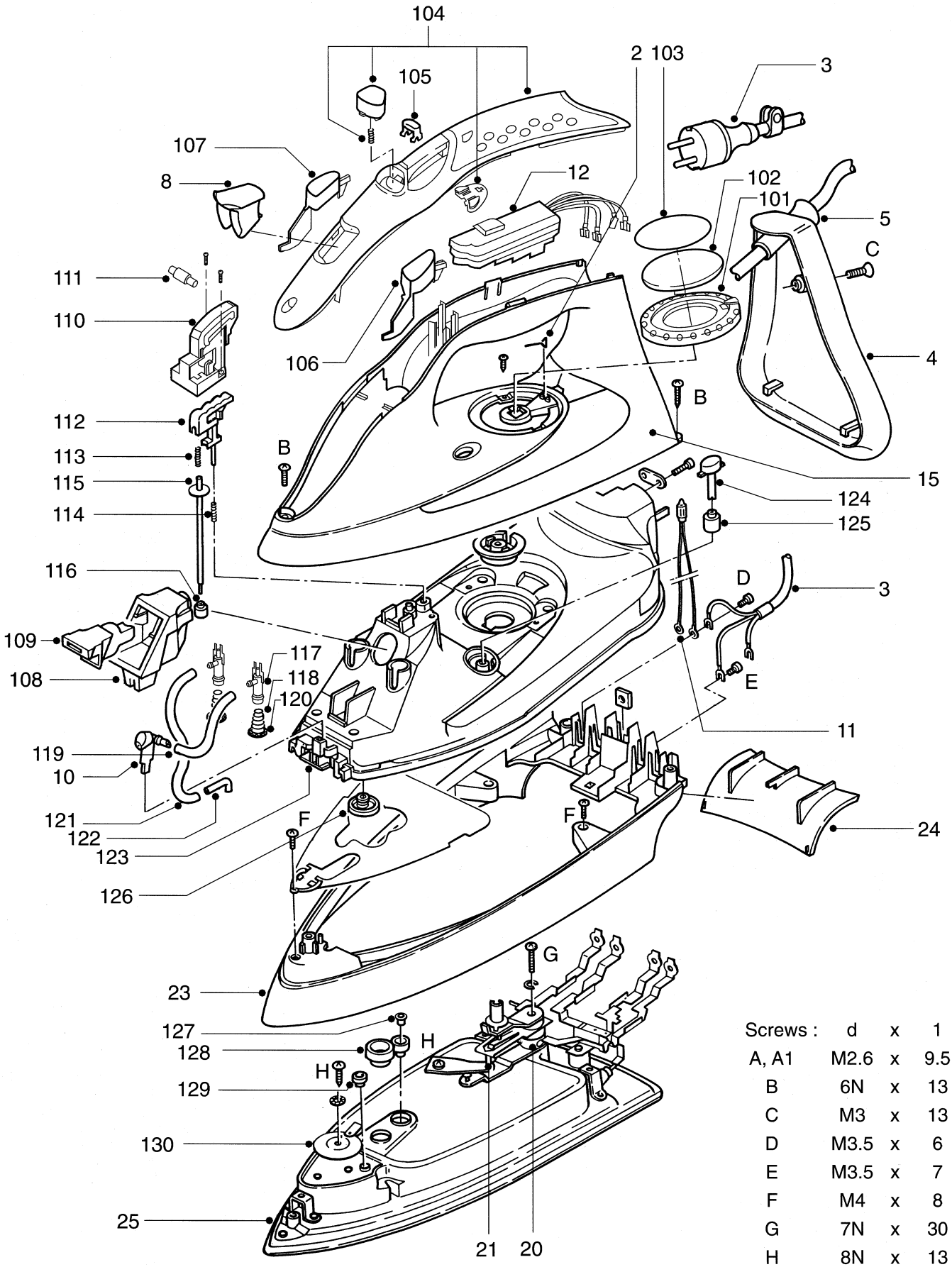


HI515 ~ HI535



HI545

EXPLODED VIEW



Screws :	d	x	1
A, A1	M2.6	x	9.5
B	6N	x	13
C	M3	x	13
D	M3.5	x	6
E	M3.5	x	7
F	M4	x	8
G	7N	x	30
H	8N	x	13

IMPORTANT + ADJUSTMENT AND CONTROLS

IMPORTANT

Due to the high wattage of the iron, only the specified cordsets must be used.

NOTES :

1) For standardisation reasons :

Dial	: With English / Spanish text only.
Rattle spring	: 5 pieces will be supplied when ordered
Type plate	: No info about the type number and voltage have been stamped onto the typeplate. When replacing the type plate, engrave at least type number and voltage onto the type plate with a sharp object.
Slide unit 13	: with blue color only.

2) Parts, with numbers from 100 and higher, cannot be ordered separately.

3) After the product has been repaired, it should function properly and has to meet the safety requirements and legal regulations as laid down and officially established at this moment.

ADJUSTMENT AND CONTROLS

Thermostat :

Thermostat 20, fitted to the solplate 25 has already been adjusted by the supplier and secured by glue.
To avoid mal-function of the iron, **NEVER** re-adjust the thermostat.

Adjustment thermostat 20, supplied as a spare part.

N.B. Before starting to adjust the thermostat, make sure that a gap exists between the lower tip of the ceramic insulating pin and the real-off bracket. See fig. 1.

Connect the connecting strips to an Ohm-meter.
Set the thermostat stopper to the position as indicated in fig. 2.
Turn the adjusting screw (R) clockwise or anti-clockwise until the Ohm-meter indicates"0".
(The contacts closed)
Then turn the adjusting screw clockwise until the Ohm-meter indicates ∞ and the contacts have only just been opened.
You hear a "click".
While loosely turning the thermostat stopper, check if the thermostat switches in the position as indicated in fig. 2.

After the thermostat has been adjusted, adjust the real-off bracket.
Set the thermostat stopper in the position shown in fig. 3.
The thermostat contacts are closed. (Ohm-meter indicates "0")
Turn the set-screw S clockwise until the contacts have only just been opened.
The Ohm-meter indicates ∞.
Secure the adjusting screws with a glue.

After adjusting the thermostat, always check the temperature of the soleplate, with the dial set to MAX. position (215 °±25°C)

For location of testing point, see fig. 4.
The temperature must be measured, after the iron has been connected to the mains for at least 15 min.
The max. temperature shall not be higher than 240°C.